Surveon

SMR Rackmount Series
QUICK INSTALLATION GUIDE

Installation

Warning!
Only qualified service personnel should install and service this product in order to avoid risk of injury from electrical shock and energy hazard.
Observe all ESD (Electro-static Discharge) procedures during installation to avoid damage to the recorder and its components.

Accessories
- Quick Installation Guide x1
- Product DVD x1 (including manuals)
- Power Cord x2
- Slide Rail Kits x1

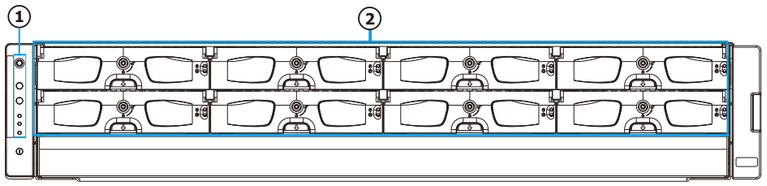
User Provided Components
- LAN Cable
- USB Keyboard and Mouse
- VGA Monitor
- 3.5" SATA Hard Drive

Tools Required
Flat blade Screwdriver

Philips Screwdriver

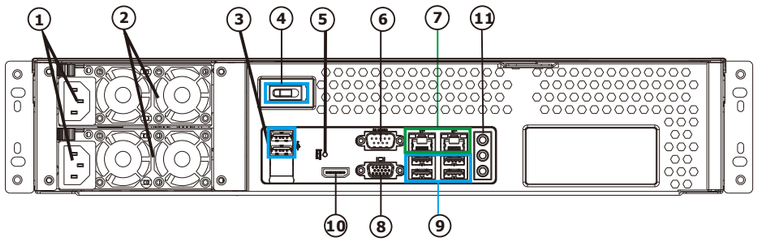
1 Hardware Overview

Front View



1. LED Indicators
2. Hard Drive Slots

Rear View

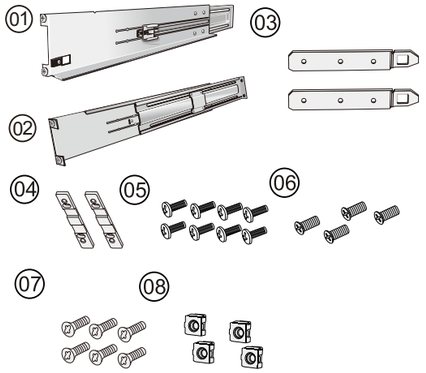


1. Power Socket
2. Power Supply
3. USB Port x2
4. Power Switch
5. Restore Button
6. COM Port
7. Ethernet Ports x2
8. VGA Port
9. USB Port x4
10. HDMI Port
11. Audio Ports

2 Installing Slide Rail (Optional)

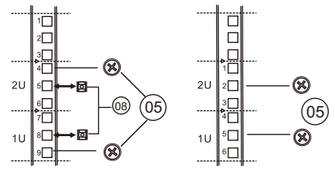
Rackmounting Kit Content

Item	Description	Quantity
01	Mounting bracket assembly, L-shape, left-side	1
02	Mounting bracket assembly, L-shape, right-side	1
03	Inner glides	2
04	Flange filler plates (fixed behind chassis ears)	2
05	Truss head screws M5 x 9.0mm	8
06	Flathead screws #6-32 x 10mm	4
07	Flathead screws #6-32 L6	6
08	M5 cage nuts	4

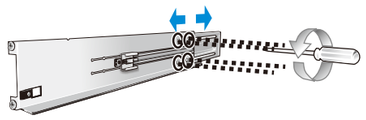


Slide Rail Installation Procedure

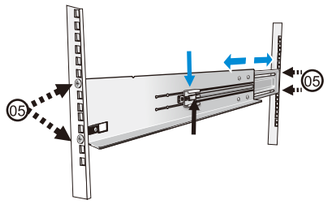
1. Installing the cage nuts **(08)** provided to be mounted onto the posts (if your rack post do not have threaded holes) for cross recess truss head screws M5 x 9.0mm **(05)** to secure the enclosure. Please refer to the illustration below that matches your enclosure dimensions.



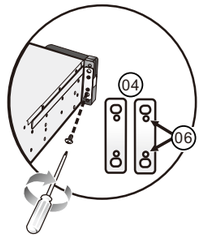
2. Adjusting the slide rail assembly to its appropriate lengths, make sure the L-shape rail **(01)** bend faces inwards, loosen the four screws to adjust its length.



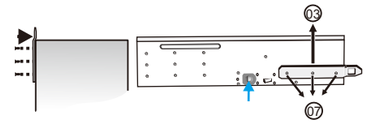
3. Secure the front end of the L-shape rail below the top cage nut (use for securing the enclosure). Extend the rail to the appropriate length where it meets the rear post and secure the front and rear using M5x0.9mm screws **(05)**. Slide runner (indicated by the **blue arrow**) and catch latch (indicated by the **black arrow**) is to meet with the inner glides.



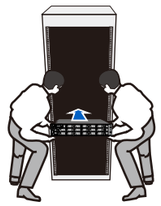
4. Attach the filler plates **(04)** behind the enclosure ears using two 32x10mm flathead screws **(06)** on each side (filler plates come with the system).



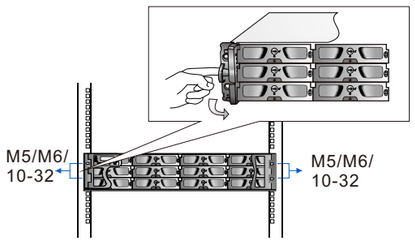
6. Attach the inner glides **(03)** to the left and right side of the enclosure using #6-32 L6 flathead screws **(07)**. Make sure the protruding end (indicated by the **black arrow**) is bent inward as shown in the illustration.



7. It is strongly recommended that two people perform this procedure together! To mount the enclosure onto the rail and into the rack, place the enclosure on the installed rails and slide it into the rack until the front ears of the enclosure meets the front rack posts.



8. Secure the enclosure by using two #6 32x 10mm flathead screws at the rear and four M5 x30mm screws on the forearm handles (forearm handles can also be secured using M6 / 10-32 screws from the system accessory box).



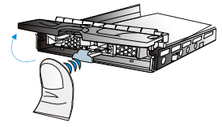
3 Installing Hard Drives

Hard Drive Installation Prerequisites

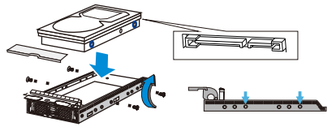
Purchase hard drives having the same capacity and using same interface with the pre-installed ones.

Inserting Hard Drive into Drive Tray

1. Remove the tray from the enclosure, press the release button and gently pull out the tray.

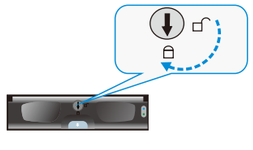


2. Place the hard drive into the drive tray. Make sure the hard drive's interface connector is facing the open side of the drive tray and its label side facing up. Align the drive and the mounting holes on the tray.



3. With the tray bezel open, insert the installed hard drive and tray into the enclosure. Once inserted, close the tray bezel.

4. Use a small flathead screwdriver to rotate the tray bezel lock from the unlock position to the lock position.



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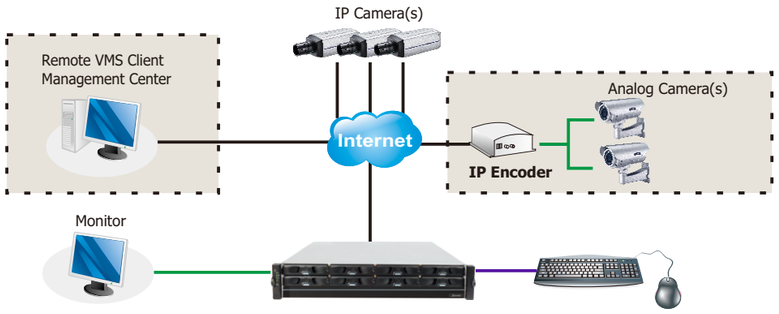
QMSMR8XJFR11

4 System Connections



Note: Shaded areas are optional devices.

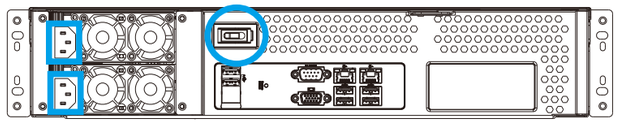
Connect cables to the rear panel ports as follows:

- Insert mouse, keyboard to the USB for operating VMS.
- Insert the LAN Cable to the upper LAN Port to a local network where your IP Camera reside. (Connection to analog cameras is also available via an IP encoder).
- Connect an external monitor capable of 32 bit or higher color quality to the VGA port to view the VMS interface.

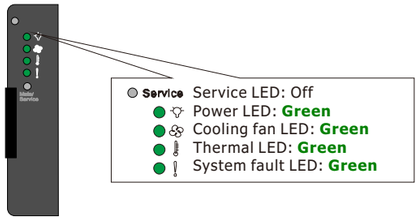
Note: Users can only use the right LAN port.

5 Powering up SMR

1. Attach the power cable to the power socket (blue rectangles).
2. Press the power switch (blue circle).

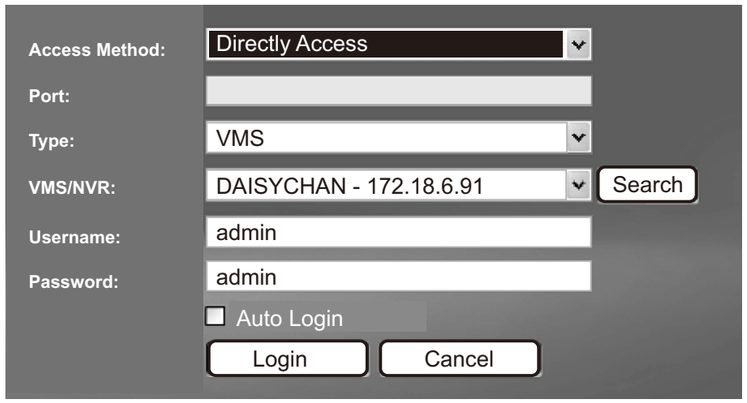


3. When turned on, the service LED should remain off while the rest of the status LEDs on the front panel should light up green to indicate normal operation.



6 Logging into SMR

The VMS Client will prompt for the following information after the SMR system is powered on:



- **Access Method:** Directly Access.
- **Type:** Choose VMS.
- **VMS/NVR:** The default IP address for the SMR Server. You can click **Search** button to obtain it.
- **Username:** The username of the domain, **which is always admin**.
- **Password:** The password of the domain. **Default password is admin.**

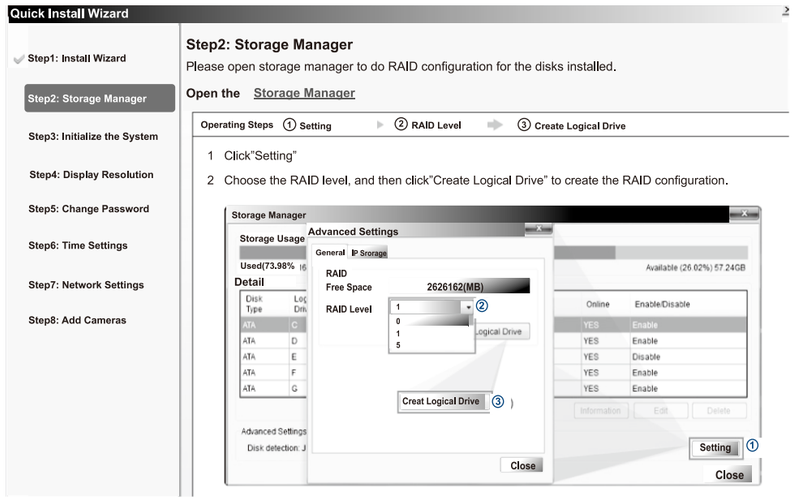
Note: If you need to connect remote PC(s) to the SMR server within a private LAN, please refer to ***Port Forwarding*** and ***Start the VMS Client*** section in SMR user manual for more details.

Click Login after the password is entered.

7 Install Wizard

When you run the SMR series for the first time, you need to go through the following steps within the Quick Install Wizard after logging in.

1.Make sure the hard drives are inserted into the SMR case. Click **Next** to continue.
2. Click **Storage Manager** to do RAID configuration.

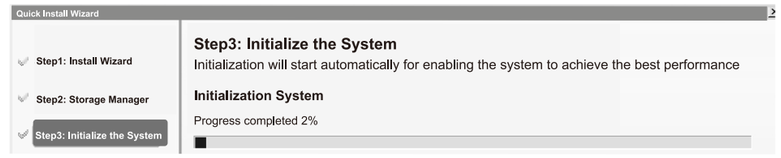


Please click **OK** after the configuration is done, and the system will reboot automatically. About 2 minutes later, the Wizard window will appear again. Click **Next** to continue.

These are the RAID options for SMR models.

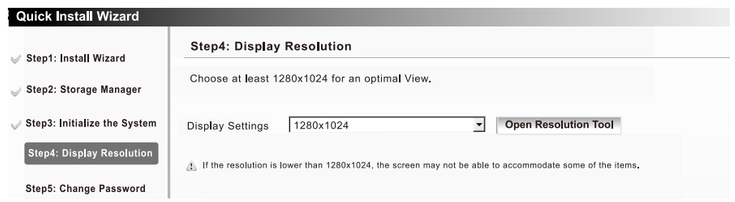
Minimum Hard Drives	RAID Options	Descriptions
2	RAID0	Provides no protection, but offers maximum capacity.
2	RAID1	Provides best protection. Your data will be mirrored.
3	RAID5	Provides protection against one drive failure.

3. System initialization will start.

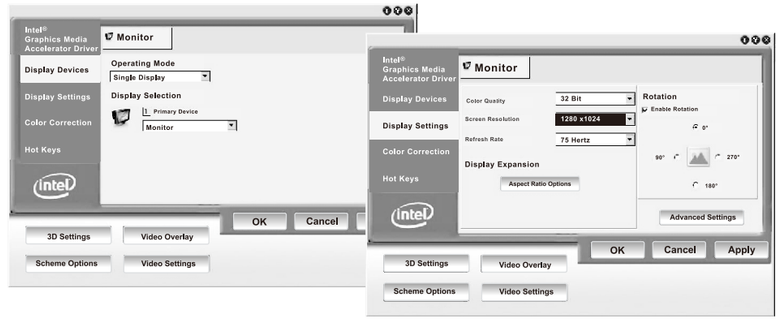

Quick Install Wizard
Step1: Install Wizard
Step2: Storage Manager
Step3: Initialize the System
Step3: Initialize the System
Initialization will start automatically for enabling the system to achieve the best performance
Initialization System
Progress completed 2%

The system will shut down after the initialization is done successfully. Please click **OK**.
Press the power switch to restart the system. About 1.5 minutes later, the Wizard window will pop up again.

4. The recommended monitor resolution for SMR is 1280x1024. Click **Open Resolution Tool** to change the resolution setting.

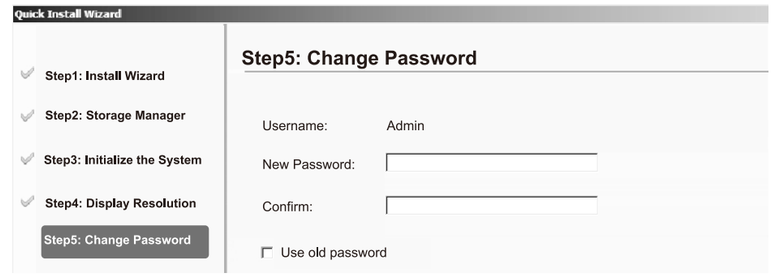

Quick Install Wizard
Step1: Install Wizard
Step2: Storage Manager
Step3: Initialize the System
Step4: Display Resolution
Step5: Change Password
Step4: Display Resolution
Choose at least 1280x1024 for an optimal View.
Display Settings
1280x1024
Open Resolution Tool
If the resolution is lower than 1280x1024, the screen may not be able to accommodate some of the items.

Choose **Single Display** as the operate mode and monitor as the display selection in **Primary Device**. Change the screen resolution in Display Settings. Click **OK** to finish.

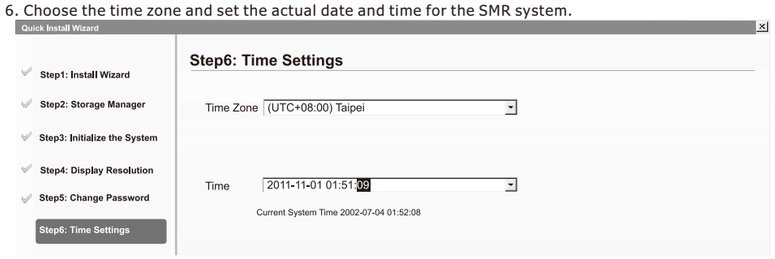


Click **Next** to continue.

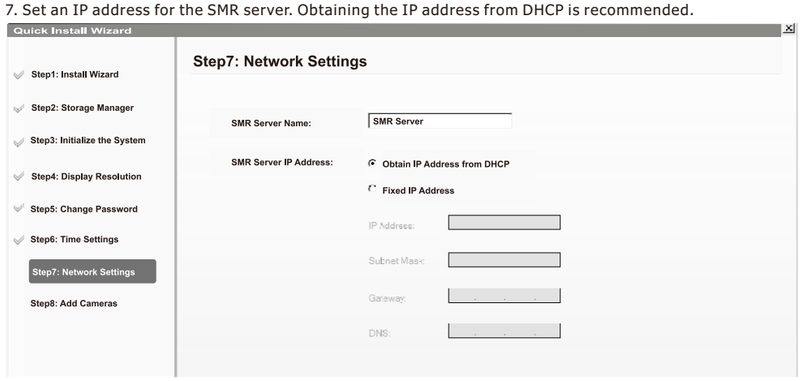
5. The default password for SMR login is admin. If you want to change the password, please enter a new one in both the blanks of **New Password** and **Confirm**.



6. Choose the time zone and set the actual date and time for the SMR system.



7. Set an IP address for the SMR server. Obtaining the IP address from DHCP is recommended.



The IP will change after the system is restarted. Click **Next** to continue

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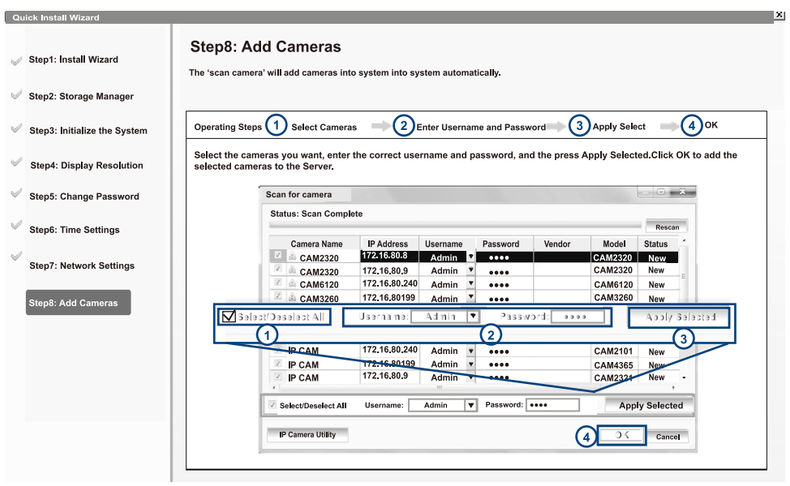
8. Click **Scan for Cameras** to add cameras to the SMR server.


Quick Install Wizard
Step1: Install Wizard
Step2: Storage Manager
Step3: Initialize the System
Step4: Display Resolution
Step5: Change Password
Step6: Time Settings
Step7: Network Settings
Step8: Add Cameras
Step8: Add Cameras
The 'scan camera' will add cameras into system into system automatically.
Operating Steps 1 Select Cameras 2 Enter Username and Password 3 Apply Select 4 OK
Select the cameras you want, enter the correct username and password, and the press Apply Selected.Click OK to add the selected cameras to the Server.
Scan for camera
Status: Scan Complete
Rescan
Camera Name
IP Address
Username
Password
Vendor
Model
Status
CAM2320 172.16.80.8 Admin CAM2320 New
CAM2320 172.16.80.9 Admin CAM2320 New
CAM6120 172.16.80.240 Admin CAM6120 New
CAM3260 172.16.80199 Admin CAM3260 New
IP CAM 172.16.80.240 Admin CAM2101 New
IP CAM 172.16.80.193 Admin CAM4365 New
IP CAM 172.16.80.9 Admin CAM2334 New
Select/Deselect All
Username: Admin
Password:
Apply Selected
IP Camera Utility
Cancel

The cameras that can be added to the server will be displayed.
To add a camera to the server, check the box by the camera entry. You may also check the **Select All** box at the bottom of the window to select all the cameras found.

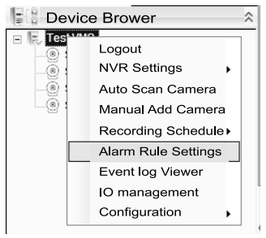
Enter the username and password, and press **Apply Selected**. Click **Ok** to add the selected cameras to the server.

9. Click **Finish** to end the wizard.

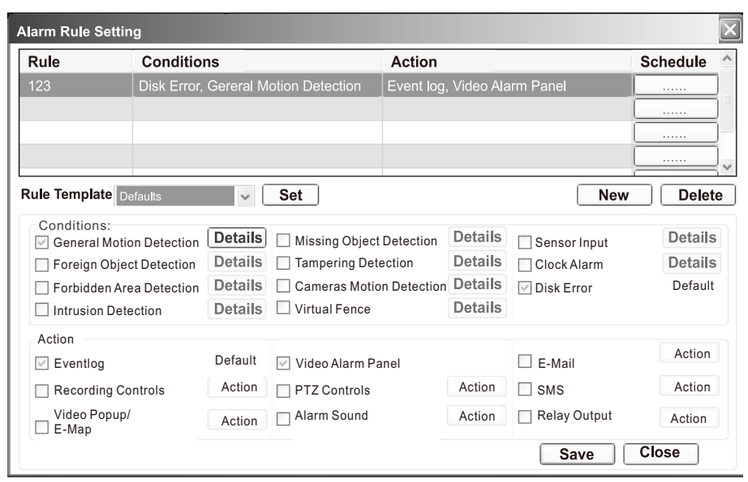
10. The VMS will automatically start after the wizard is finished. Please refer to SMR user manual for more details.

8 Alarm Rule Settings

VMS Client provides robust alarm handling features.
To access these features, right click the Server entry and then highlight and click **Alarm Rule Settings** option.



You can combine the alarm trigger conditions with action items such as event notification, video recording, and/or camera movements. Multiple alarm rules can be created using the following elements:



1. **Rule:** A short description. For example, "east-fence intrusion detection" or "front entrance access control."
2. **Condition:** Specifies triggering conditions such as Motion/Video Loss/Sensor Input/Clock Alarm, etc.
3. **Action**: Specifies the action to take when the alarm is triggered.
4. **Schedule:** Allows the user to schedule the application of specific alarm rules. This is useful in cases such as applying rules to non-office hours.

Adding an Alarm Rule

1. Click the **New** button.

2. Enter a short description for the new rule in the **Add Rule** field.

3. Choose conditions and actions. Click the **.....** button in the alarm field to set up a schedule for the rule.

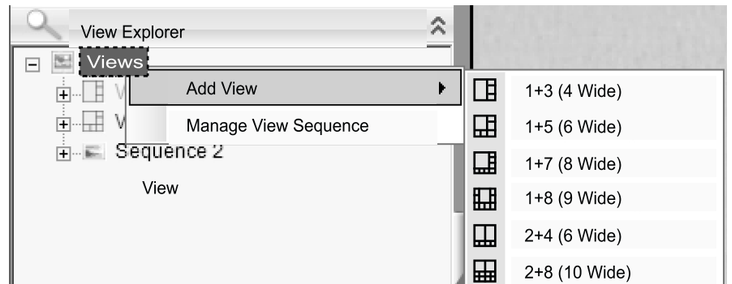
4. Click the **Save** button to save the rule.

9 Setting up Live View

An important part of monitoring your surveillance network is to have the right views so that you will have the optimum viewing angle to discern a situation.

The default view setting is 3x3.

You can also add a customized view to the VMS Client:
1. Right click on **Views > Add View** in the View Explorer window of the VMS, and choose the type of view that you wish to add. The software responds by placing a blank template in the main viewing area.



2. From the Device Browser window, you can click and drag each camera into separate frames. The camera output will be displayed in the frame.

Note: Dragging a camera into a frame that already has a camera assigned will cause the frame to be reassigned to the new camera.

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